

In the Specification:

Please replace paragraph [0009] with new paragraph [0009], shown below.

**Fig. 3** is a partial cross-section of an exemplary coaxial connector assembly including a ~~conductive insert and~~ glass bead assembly;

Please replace paragraph [0022] with new paragraph [0022] as shown below.

As shown in **Fig. 2**, for high frequency applications a glass bead **104** is mounted in a conductive insert **214** to form a glass bead assembly (also referred to herein as an electrical feed-through connection) **202**. The conductive insert **214** is generally cylindrical in shape, having a proximal end and a distal end, wherein the proximal end is adjacent to a housing in which a microstrip substrate is located (as shown below in **Fig. 3**). The conductive insert **214** includes a bore varying in diameter along the length of the conductive insert **214**. A first portion of the bore receives a glass bead **104** and is sized such that a characteristic impedance of the glass bead matches a characteristic impedance of a coaxial connector. The characteristic impedance of a dielectric is given by the equation:

$$z_o = \frac{60}{\sqrt{Er}} \ln \left( \frac{D_o}{D_i} \right)$$

where  $Er$  is the relative permittivity of the dielectric (i.e., the dielectric constant),  $D_o$  is the diameter of an outer conductor (e.g., the inner surface of the bore) and  $D_i$  is the diameter of an inner conductor (e.g., the center conductor pin). In a typical microwave connector, the characteristic impedance of the coaxial connector is 50  $\Omega$ . The first portion of the bore is sized such that  $z_o$  is 50  $\Omega$  when a glass dielectric is

positioned in the first portion. In other embodiments the characteristic impedance can be more or less than 50  $\Omega$ .

Please replace paragraph [0025] with new paragraph [0025] as shown below.

Fig. 3 illustrates an exemplary coaxial connector assembly 300 in which an electrical feed-through connection 202 is used. The electrical feed-through connection 202 is mounted in a package housing 306 and positioned such that the center conductor pin 116 is in electrical communication with the microstrip substrate 308 located within the housing 306. The housing 306 includes a cavity 324 for receiving the conductive insert of the electrical feed-through connection 202. To ensure a good connection between the ~~conductive insert~~ electrical feed-through connection 202 and the housing 306, the conductive insert ~~[[202]]~~ is fixedly attached to the housing 306. For example, the conductive insert ~~[[202]]~~ can be soldered into the cavity 324 of the housing 306 or connected to the housing 306 by bolts. The housing further contains a second cavity 326 for associated circuitry.